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## Education

- Ph.D. Candidate in Aeronautics & Astronautics, University of Washington (present)
- B.Sc. in Applied and Computational Mathematical Science, University of Washington (2006)

## Industry

- Software Development Engineer - Microsoft Corporation (2006-2012)

## Research Interests

- Networked Dynamic Systems
- Control Theory
- Human-Swarm Interactions
- Semi-Autonomous Networks

## Publications

- Eric Schoof, Airlie Chapman and Mehran Mesbahi (2017), "Weighted Bearing-Compass Dynamics: Edge and Leader Selection", Transactions on Network Science and Engineering. (accepted)
- Armand Awad, Airlie Chapman, Eric Schoof, Anshu Narang-Siddarth and Mehran Mesbahi (2017), "Time-Scale Separation in Networks: State-Dependent Graphs and Consensus and Tracking", Transactions on Control of Network Systems. (submitted)
- Airlie Chapman, Eric Schoof and Mehran Mesbahi (2016) [Pattern Control for Networks of Ginzburg-Landau Oscillators via Markov Decision Processes](#), 1853-1858. In Proc. of the IEEE Conference on Decision and Control. [Slides](#)
- Armand Awad, Airlie Chapman, Eric Schoof, Anshu Narang-Siddarth and Mehran Mesbahi (2015) [Time-Scale Separation on Networks: Consensus, Tracking and State-Dependent Interactions](#), 6172-6177. In Proc. of the IEEE Conference on Decision and Control.
- Airlie Chapman, Eric Schoof and Mehran Mesbahi (2015) "Online Adaptive Network Design for Disturbance Rejection." Cambridge University Press's Principles of Cyber-Physical Systems. (to appear)
- Eric Schoof, Airlie Chapman and Mehran Mesbahi (2015) [Efficient Leader Selection for Translation and Scale of a Bearing-Compass Formation](#), 1816-1821. In Proc. of the IEEE International Conference on Robotics and Automation.
- Eric Schoof, Airlie Chapman and Mehran Mesbahi (2014) [Bearing-Compass Formation Control: A Human-Swarm Interaction Perspective](#), 3881-3886. In Proc. of the American Control Conference. [Slides](#)

- Airlie Chapman, Eric Schoof and Mehran Mesbahi (2013) [Distributed Online Topology Design for Disturbance Rejection](#), 817-821. In Proc. of the IEEE Conference on Decision and Control. [Slides](#)
- Airlie Chapman, Eric Schoof and Mehran Mesbahi (2012) [Advection on Networks with an Application to Decentralized Load Balancing](#), 2680-2681. In Proc. of the IEEE International Conference on Intelligent Robots and Systems.
- Airlie Chapman, Eric Schoof and Mehran Mesbahi (2010) [Semi-Autonomous Networks: Theory and Decentralized Protocols](#), 1958-1963. In Proc. of the IEEE International Conference on Robotics and Automation.

## Videos

## Selected Awards

- Percy Halpert Memorial Fellowship (2012)
- IROS Student Travel Award (2012)